HOM: J.D. WHITE

## Attachment 1

## Accumulation Time TAC 335.69

The following hazardous wastes are stored on-site in 55 gallon drums for less than 90 days prior to off-site disposal at an authorized hazardous waste management facility:

Description	TDWR Waste Code Number
Phosphorous acid	905030
Spent methyl ethyl:ketone	913860
Organic Peroxide	916250

Exclusions 40 CFR 261.4 (x) (7) and TAC 335.41 (g) (2)

Spent sulfuric acid, TDWR Waste Code Number 900040, is generated from one of the manufacturing processes; it is treated to remove trace impurities (see Attachement 2) by the addition of sulfur dioxide. It is then stored after treatment in a 10,000 gallon tank, but not "accumulated speculatively", and sent for off-site recovery to produce virgin sulfuric acid.

## **IEXAS WATER COMMISSION**

Paul Hopkins, Chairman Ralph Roming, Commissioner John O. Houchins, Commissioner



November 27, 1985

Larry R. Soward, Executive Director

Mary Ann Hefner, Chief Clerk James K. Rourke, Jr., General Counsel

Mr. Bernard M. Kelly Vice President, Manufacturing Lucidol Division - Pennwalt Corp. 18000 Crosby Eastgate Road Crosby, Texas 77532

Dear Mr. Kelly:

Re: Lucidol Division-Pennwalt Corp., Application No. 10648 Registration No. 30458 - Crosby, Texas Site

We have reviewed Part  $\Lambda$  - Facility Background Information for the above-referenced site and also the Affidavit of Exclusion which was recently submitted for the purpose of withdrawing the hazardous waste permit application from further consideration in accordance with the exclusion claimed.

Based on our review of Part A and the Affidavit of Exclusion, the application for a hazardous waste permit has been withdrawn. We are retaining certain portions of the Part A for incorporation into your solid waste registration file.

If I may be of further assistance, please do not hestitate to contact me at AC512/463-8173.

Sincerely,

Minor Brooks Hibbs, Chief

Permits Section

Hazardous and Solid Waste Division

- RHA:bb

cc: TXD 043750512

TWC District 7 Office - Deer Park

DEC 4 1985

44.9

DW0550

#### TEXAS WATER COMMISSION NOTICE OF REGISTRATION INDUSTRIAL SOLID WASTE GENERATION/DISPOSAL

THIS IS NOT A PERMIT AND DOES NOT CONSTITUTE AUTHORIZATION OF ANY WASTE MANAGEMENT ACTIVITIES OR FACILITIES LISTED REQUIREMENTS FOR SOLID WASTE MANAGEMENT ARE PROVIDED BY TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TEXAS WATER COMMISSION (TWC). CHANGES OR ADDITIONS TO WASTE MANAGEMENT METHODS REFERRED TO IN THIS NOTICE REQUIRE WRIT-TEN NOTIFICATION TO THE TWC.

DATE OF NOTICE: 07-18-86

REGISTRATION DATE: 04-14-76

REGISTRATION NUMBER: 30458

EPA I.D. NUMBER: TXD043750512

THE REGISTRATION NUMBER PROVIDES ACCESS TO STORED INFOR-MATION PERTAINING TO YOUR OPERATION. PLEASE REFER TO THAT NUMBER IN ANY CORRESPONDENCE.

COMPANY NAME:

PENNWALT CORP. 18000 CROSBY EASTGATE ROAD

CROSBY, TEXAS

77532

GENERATING SITE LOCATION:

HIGHWAY 90, CROSBY, TEXAS

CONTACT PERSON: JIMMY D. WHITE

PHONE: (713) 328-3561

NUMBER OF EMPLOYEES: 50 - 99

TWC DISTRICT: 07

REGISTRATION STATUS: ACTIVE REGISTRATION TYPE: GENERATOR

HAZARDOUS WASTE STATUS: GENERATOR/TRANSPORTER

#### WASTE GENERATED:

WASTI NUMB	~ ~ ~ ~ T T T T T T T T T T T T T T T T	CLASS	CODE	DISPOSITI	ON
001	INDUSTRIAL PROCESS WASTEWATER CONTAINING -HYDROCARBONS	1	-	OM-2TIE	WDW182
002	ACID, PHOSPHOROUS	IH	905030	OFF-SITE	Rollina 01429
	EPA HAZARDOUS WASTE NOS. LR DESCRIPTIONS): DOOZ, DOOZ	EFER T	0 40 CFR	PART 261	FOR

ACID, SULFURIC (H2SO4) 003

OFF-SITE/SOLD EOR RE IH 900040

COVERY

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS: DOOZ

2

Rollins

( 11 i

NOTICE OF REGISTRATION (CONTINUED) REGISTRATION NUMBER: 30458 PENNHALT CORP. COMPANY NAME:

OFF-SITE 149690 INDUSTRIAL PROCESS SLUDGE 1 004 NO LONGER GENERATED AMINE SOLIDS (CORROSIVE) 98126n IH 005 EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): DOD2 NO LONGER GENERATED 281980 II DI-T-BUTYL UREA 006 900430 NO LONGER GENERATED IH CYANIDE BEARING WASTES 007 EPA HAZARDOUS HASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): PO30 NO LONGER GENERATED 105040 CYANIDE WASTES, TREATED I 800 918580 NO LONGER GENERATED IH 009 TRIBUTYLAMINE

> EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS):

914260 NO LONGER GENERATED METHYL ISOBUTYL KETONE IH 01n EPA HAZARDOUS WASTE NOS. TREFER TO 40 CFR PART 261 FOR DESCRIPTIONS):

OFF-SITE 1 CARBON, ACTIVATED, SPENT N 1 1

913860 ON-SITE/OFF-SITE Rollins SOLVENTS, NON-HALOGENATED IH 012

EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS):

913750 NO LONGER GENERATED TH 013 CHLOROFORM

> EPA HAZARDOUS WASTE NOS. (REFER TO 40 CFR PART 261 FOR DESCRIPTIONS): UO44

916250 OFF-SITE IH ORGANIC PEROXIDES 014

> EPA HAZARDOUS WASTE NOS. IREFER TO 40 CFR PART 261 FOR DESCRIPTIONS):

SHIPPING/REPORTING: PURSUANT TO TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TWO PERTAINING TO INDUSTRIAL SOLID WASTE MANAGEMENT, ISSUANCE OF MANIFESTS AND MONTHLY REPORTING ARE REQUIRED FOR OFF-SITE STORAGE/PROCESSING/DISPOSAL OF THE FOLLOWING CLASS I WASTES LISTED IN PART I. A SHIPMENT SUMMARY REPORT SHOULD BE. SUBMITTED FOR EACH MONTH NOT LATER THAN THE 25TH OF THE FOLLOWING MONTH.

11.1 905030 ACID, PHOSPHOROUS

> 900040 ACID, SULFURIC (H2SO4) 003

NOTICE "OF REGISTRATION (CONTINUED) REGISTRATION NUMBER: 30458 COMPANY NAME: PENNHALT CORP.

014

004 149690 INDUSTRIAL PROCESS SLUDGE 181730 CARBON, ACTIVATED, SPENT 011 913860 SOLVENTS, NON-HALOGENATED 012

# III. ON-SITE WASTE HANAGEMENT FACILITIES:

916250 ORGANIC PEROXIDES

FACILITY FAC NO. ACTIVE SURFACE IMPOUNDMENT 01 PROCESSING OF WASTE NUMBER(S) 001, 008 CONCRETE LINED ACTIVE INJECTION WELL 92 DISPOSAL OF WASTE NUMBER(S) DO1, DO7, DO8 CLOSED 0.3 TANK STORAGE/PROCESSING OF WASTE NUMBER(S) 003, 007, 008 TWO TANKS PARIAL CLOSURE PLAN SUBMITTED 4-85, APPROVED BY GPH 6-6-85 ACTIVE CONTAINER STORAGE AREA 04 STORAGE OF WASTE NUMBER(S) 002, 012 SURFACE IMPOUNDMENT 05 STORAGE OF WASTE NUMBER(S) 001, 008 UNLINED SURFACE IMPOUNDMENT ACTIVE TANK (SURFACE) 06 STORAGE OF WASTE NUMBER(S) 003 41 a 10000 GAL.

UNLESS OTHERWISE STATED ABOVE, FACILITIES ARE LOCATED

AT HIGHWAY 90, CROSBY, TEXAS

COUNTY OF HARRIS

RECORDS.

Santa Carlo B earna ta teleparati (1874) 117

IV.

1151

F

NOTICE OF REGISTRATION (CONTINUED)
REGISTRATION NUMBER: 30458
COMPANY NAME: PENNHALT CORP.

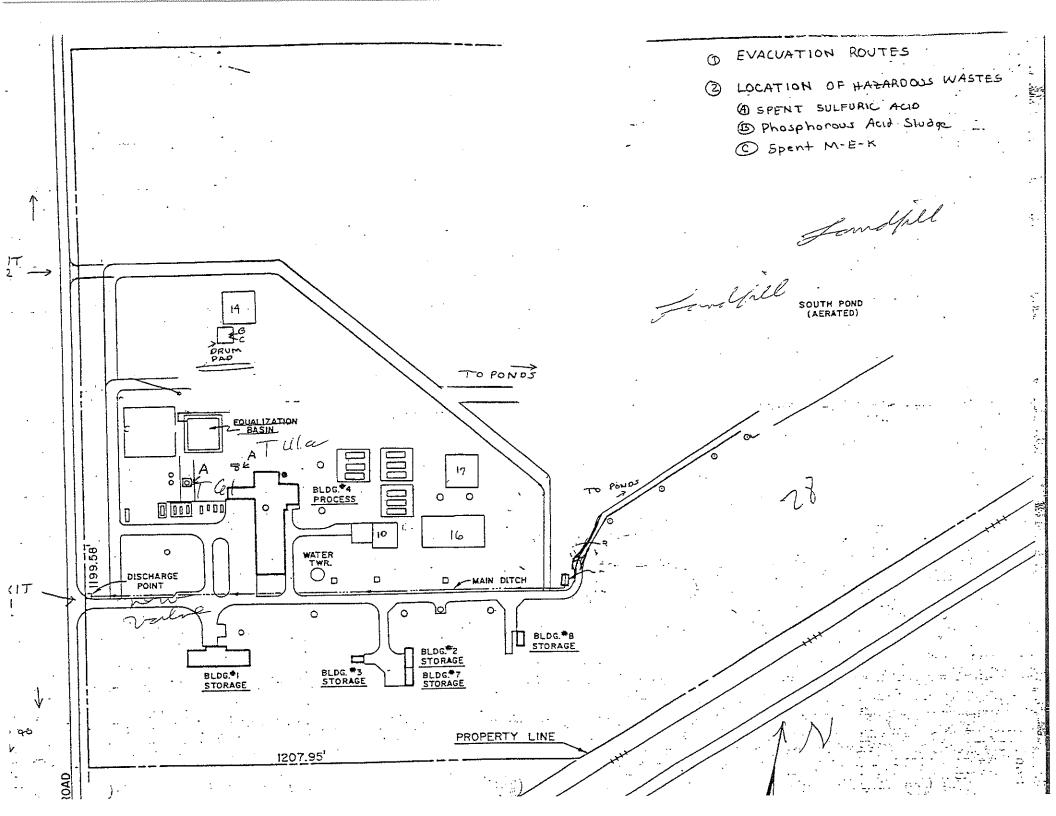
 $f_1(t, 1) \in \mathbb{C}$ 

+ ;  $\uparrow$  .

A. FOR PURPOSES OF FILING ANNUAL REPORTS PURSUANT TO TEXAS ADMINISTRATIVE CODE SECTION 335 OF THE RULES OF THE TWO PERTAINING TO INDUSTRIAL SOLID WASTE MANAGEMENT, RECORDS SHOULD BE MAINTAINED FOR STORAGE, PROCESSING AND/OR DISPOSAL OF THE FOLLOWING WASTE(S) LISTED IN PART I:

001 109520 INDUSTRIAL PROCESS WASTEWATER CONTAINING HYDROCARBONS

012 913860 SOLVENTS, NON-HALOGENATED





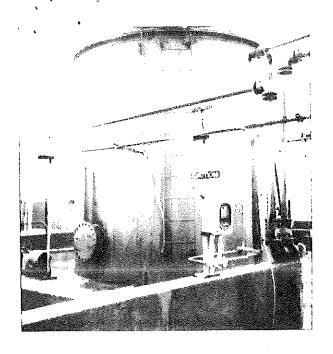


8/5/86

Pennwalt Corporation Lucidol Division Generator #30458

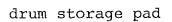


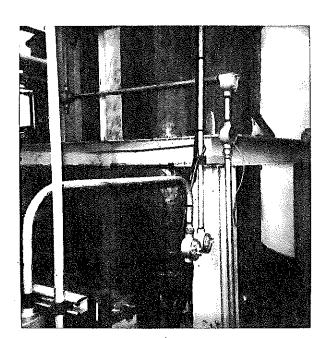
landfill containing sludges from South Pond





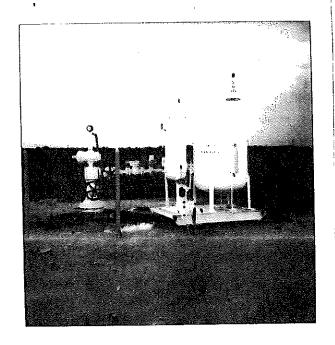
T-61





T-41a

8/5/86 Pennwalt Corporation Lucidol Division Generator #30458

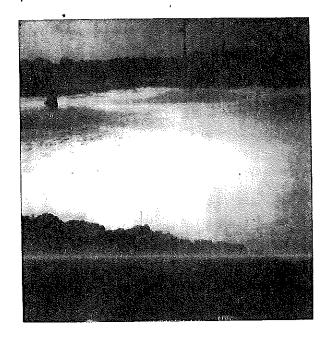


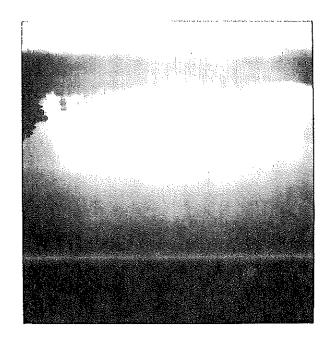


. WDW 122

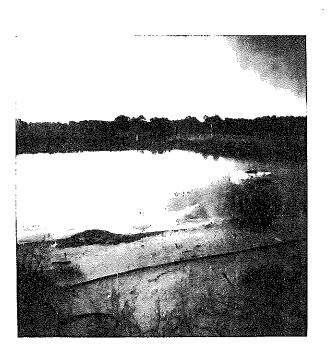
equalization basin

8/5/86 Pennwalt Corporation Lucidol Division Generator #30458



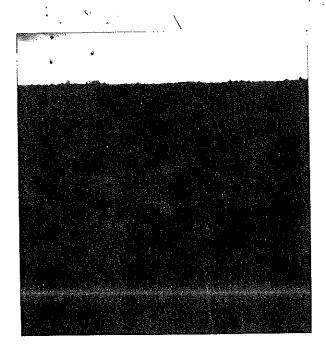


Earthen settling basin



South Pond

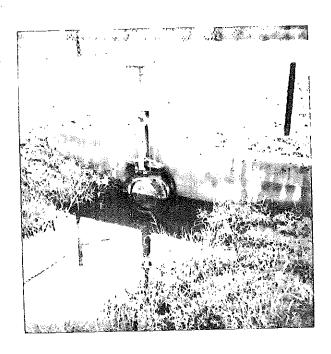
8/5/86 Pennwalt Corporation Lucidol Division Generator #30458





North Pond

Sludge Landfill



8/5/86
Pennwalt Corporation
Lucidol Division
Generator #30458

new valve on ditch at plant entrance

## TEXAS WATER COMMISSION

Paul Hopkins, Chairman Ralph Roming, Commissioner John O. Houchins, Commissioner



Larry R. Soward, Executive Director

Mary Ann Hefner, Chief Clerk
James K. Rourke, Jr., General Counsel

August 15, 1986

Mr. William Connellee Pennwalt Corporation Lucidol Division 18,000 Crosby Eastgate Road Crosby, Texas 77532



Dear Mr. William Connellee:

Re: Pennwalt Corporation, Lucidol Division, ISW Registration No. 30458.

On August 5, 1986, Mr. Clarence E. Johnson conducted an industrial solid waste compliance inspection of your facility. The following deficiencies were noted:

1. Texas Administrative Code (TAC), Section 335.6 (c) - Notification Requirements
The Registration does not include Tank 41a and inactive landfill for South and North Pond sludge as waste management facilities. A request to amend the registration should be sent to:

Texas Water Commission Attention: Mr. Ed Hatton P. O. Box 13087 Austin, Texas 78711

- 2. TAC 335.112 which references 40 CFR 265.115 Certification of Closure Cyanide wastewater tanks closure has not been certified.
- 3. TAC 335.112 which references 40 CFR 265.15 Inspection Requirements
  Inspection log does not include name of inspector.
- 4. TAC 335.112 which references 40 CFR 265.192 Tanks
  Tank 61 needs to be repainted.
- 5. TAC 335.69 Accumulation Time

  Drums were stored on drum storage pad from 10/9/85 to 2/25/86 before shipment was made to Rollins. Shipment was late due to Rollins being unable to accept drummed wastes during a

Mr. William Connellee Page 2 August 15, 1986

turnaround. An extension was not requested from the Texas Water Commission.

- 6. TAC 335.10 Shipping Requirements
  Pennwalt Lucidol has shipped waste code number 149690 without use of a manifest.
- 7. TAC 335.2 Permit Required
  Pennwalt Lucidol has shipped waste code number 149690 to an unauthorized site for disposal of this waste.
- 8. TAC 335.3 Guidelines
  Pennwalt Lucidol's onsite landfill for South Pond sludge has ponding which is not in compliance with Texas Water Commission guidelines for landfills.

Please respond to this office in writing by October 1, 1986 with your plans and implementation schedule which will ensure corrective action of the above listed deficiencies by November 1, 1986. If you have any questions, please contact Clarence E. Johnson at (713)-479-5981.

Sincerely,

Tom Kearns

Manager

Hazardous and Solid Waste

Southeast Region

TK/CEJ/amh

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FIELD OPERATIONS

# TEXAS WATER COMMISSION

Solid	Waste	Compliance	Monitoring	Inspection	Report
			·		

C.O. Use Only
TWC Dist. 7 INSPECTION COVER SHEET 0884 KC
EPA ID No. TXDOU3750519 COMMERCIAL WASTE Facility GOVT. Facility
NAME OF COMPANY Planwalt Con Fradal Dining
EPA ID No. TXDOU3750512 COMMERCIAL WASTE Facility GOVT. Facility  NAME OF COMPANY Permult Copy, Funded Division  MAILING ADDRESS (8000 Crosly Eastgate Rel Tel. 308-356)
SITE LOCATION Tel.
COUNTY Houris TYPE OF INDUSTRY my angune perqui
GENERATOR CLASSIFICATION: Industrial C Municipal
Part A Application submitted to the State? Yes No To EPA? Yes No Affidavit of Exclusion submitted to the State? Yes No Yes No Yes No If yes, Date 1167185 Wall this facility require a permit?
CURRENT WASTE MANAGEMENT (Haz"H", Class I NonHaz"NH", Class II-"II", Class III-"III")
Generator # N# Treatment # N# Storage # N# Disposal N# Transporter
HW Exemptions (check): 90-Day Storage Other
*SQG:Total HW Generation Per Month: <100 kg 100-1000 kg
H W Facilities (circle appropriate codes): (C) (T) SI WP LT LF I TT TR (WDW) O
N H Facilities (circle appropriate codes): C T (SI) WP LT (LF) I TT TR WDW O
Anomalies in the above information will be addressed by: (a) Enforcement in progress (b) Central Office (c) District Office (d) Owner/Operator
Type of Inspection (circle): EV EB EC CL GW SA CD FO OT FE SQ SW
Inspector's Name and Title Clauluse & Johnson
Inspection Participants Clark Paddock Jenny Whit
Pate(s) of Inspection $\frac{\partial}{\partial s} = \frac{1}{2} $
pproved: District Manager Signed: Clarifue & Johnson 8/13h
SQG- Small quantity generator, <1000 kg. of hazardous waste per months.

Page 1 of 1

# TWC Solid Waste Inspection Report (40 CFR Part 264 Subpart G; Part 265 Subpart G) CLOSURE-In-PROGRESS CHECKLIST

TWC Reg. No. 30 USS
Reg. Facility No. 03

Note: To be completed if company is closing a RCRA facility. Type of facility component: Gamble Wastervala Tanks Full-Facility Closure Partial Closure 2. Type of closure: Has closure plan received TWC, approval or final modification?
Date of approval: LLLS 3. If this is a Partial Closure, is this the last facility to be closed requiring RCRA ground water monitoring? 5. If this is an interim status facility: Has an approved public notice of closure been published? Date published: b. Is a public hearing required? Date of hearing: Has on-site closure work started? Date work initiated: 1117/84 Is closure work proceeding according to the work schedule in the approved closure plan? N/A YES NO Have 180 days elapsed since TWC approval of the closure plan? a. If yes, has the TWC approved N/A YES NO a closure period of greater than 180 days? 9. Was District Office notified of sampling event  $NA_{yes}$ when complete removal of land-disposal facility was to have been accomplished? 10. Were TWC samples taken to verify completion of closure? NO C NOTE: List chain-of-custody tag numbers in comments section. 17/20184 11. Is the closure work completed? 12. Has the closure **certification** been submitted to TWC? N/A YES

Attach copy or explain.

<sup>\*\*\*</sup> An entry in this column indicates corrective action/response is needed. Page  $1\ \text{of}\ 1$ 

## TEXAS WATER COMMISSION

Solid Waste Compliance Monitoring Inspection Report
INSPECTION COVER SHEET DEC. O. Use Only
JAN 9 1986
EPA ID No. 1 X Do 437505(2 Commercial Waste Facility PROGRAM SUPPLE Facility
NAME OF COMPANY Pennvalt Corporation Frustal Dive
MAILING ADDRESS 18000 Crosly Easlynta Rel Tel. 308-3561
SITE LOCATION Tel. Tel.
COUNTY Havis TYPE OF INDUSTRY again perdiles
Part A Application submitted to the State?  Affidavit of Exclusion submitted to the State?  Was a written exclusion granted by TWC?  Will this facility require a permit?  Yes No Yes No Yes No Yes No Yes No
Current Waste Management (HazH, Class I NonHazNH, Class II, III, or check as appropriate
Generator # WHI Treatment # NH Storage # NH Disposal # NH Transporter
HW Exemptions: SQG 90-Day Storage V Other
WW Facilities (circle appropriate codes): C SI WP LT LF I TR WUW O
NH Facilities (circle appropriate codes): C T SD WP LT LF 1 TT TR WDW O
Anomalies in the above information will be addressed by: (a) Enforcement in progress (b) Central Office (c) District Office (d) Owner/Operator
Inspection Information:
Type of Inspection (circle): EV EB EC CL' GW (SA) CD FO OT F
Inspector's Name and Title Concre E Johnson
Inspection Participants Jemmie W. Lite, Bill Connalle
Inspection Date(s) 12/9/85
Approved: District Manager Signed: Clevenie & Johns
District Manager Inspector  Date: 12/17/85

## **Texas Water Commission**

#### INTEROFFICE MEMORANDUM

DATE:

December 31, 1985

TO Bill Brown

Field Operations Liaison

Hazardous and Solid Waste

THRU

Clarence E. Johnson, Hazardous and Solid Waste

FROM : Southeast Region

SUBJECT: Pennwalt Corporation, Lucidol Division, Registration #30458, WDW 122,

WDW 230.

#### I. INTRODUCTION

Pennwalt Corporation's Crosby Plant is a small Chemical plant, which manufactures organic peroxides. It uses WDW 122 and WDW 230 to dispose of their process wastewater.

Mr. Oliver Thompson of Crosby noticed some vacuum trucks at the Lucidol plant on Sunday December 8, 1985. He notified Rhonda MacKinnon of the Underground Injection Section on 12/9/85. Ms. MacKinnon notified the District 7 office. Clarence E. Johnson inspected the site on 12/9/85 with Mr. Jimmie White, environmental engineer and Mr. William Connallee, plant manager.

#### II. FINDINGS

- 1. The oxidation pond was observed building up in level on Friday, December 6, 1985.
- 2. The injection well system flow rate slowed down due to obstruction in flow line from oxidation pond to pretreatment facilities.
- 3. This line was replaced on 12/9/85. The oxidation pond overflowed to plant process sewers and ditches on Saturday, December 7, 1985. Three vacuum trucks from Ward McCarty Trucking Company Liberty, were in the plant removing contaminated water from oxidation pond and ditches to remaining portion of South Pond on 12/8/85. Plant failed to check gate valves for leaks until Sunday, 12/8/85.
- 4. The wastewater in the Crosby-Eastgate Road ditch was not removed until 12/9/85.
- 5. Pennwalt Corporation, Lucidol Division did not report the spill by Sunday, 12/8/85 as required.
- 6. Samples taken of wastewaters in the Crosby-Eastgate Road ditch indicate a change in TOC from 39 mg/l above to 1392 mg/l below. Please see data in Table I.
- 7. South Pond on 12/9/85 had a freeboard of 13 inches and a vacuum truck was still working picking up the spill.

Pennwalt Corp. Page 2. December 31, 1985

- 8. Two dozers on 12/9/85 were covering with clay five million gallons of sludge from the South Pond which had been fixed with cement flue dust. They had about 50% of the fixed sludge covered with clay.
- The remaining two acre portion of the South Pond contains 1-2,000,000 gallons of sludge, which remains to be removed in the near future.

#### III. RECOMMENDATIONS

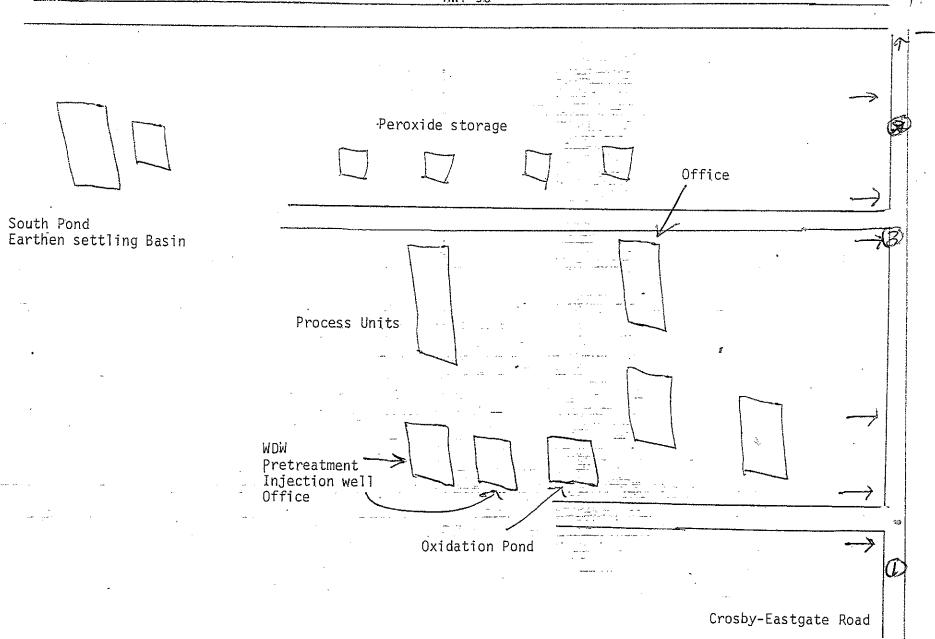
- Pennwalt Corporation, Lucidol Division was advised to call Texas Water Commission and Harris County Pollution Control, whenever vacuum trucks were used in the plant.
- Pennwalt Corporation, Lucidol Division was advised that all six gate valves were leaking. Mr. Jimmie White said on 12/10/85 that all of the gate valves will be replaced with a new different type of valve.

This information is submitted as file data.

Table I Pennwalt Lucidol Spill of 12/7-9/85

<u>Parameters</u>	<u>Above</u>	<u>Spill</u>	<u>Below</u>
рН	7.37	9.82	5.72
TOC mg/l	39.0	2397.0	1592.0
COD mg/l	55.0	7167.0	5124.0
Conductivity	12.0	35350.0	16968.0
Total		1	
Alkalinity mg/l	340.0	2488.0	498.0
Chlorides mg/l	163.0	13888.0	4852.0
Sulfate mg/l	64.0	710.0	1785.0
Oil and grease mg/l		189.0	

TK/CJ/np



18000 Crosby Eastgate Road, Crosby, Texas 77532 • (713) 328 3561

CHEMICALS " EQUIPMENT " HEALTH PRODUCTS

December 9, 1985

Mr. Clarence Johnson TEXAS WATER COMMISSION 4301 Center Street Deer Park, Texas 77536

Dear Mr. Johnson:

In follow-up of our meeting on December 9, 1985, I am informing you of an accidental spill that occurred at this plant. Our primary wastewater collection basin (Equalization Pond) overflowed and spilled into the ditch system. This waste is non-hazardous according to RCRA standards. Vacuum trucks were called in to collect the spillage. The overflow was due to a restriction in the transfer pipe from the pond to the pretreatment system. A secondary line has been installed to bypass this restriction.

Approximately 100 gallons of the spillage managed to seep through a new gate valve. The valve was installed three weeks ago and this was the first time it had been used in service. The valve will be tested with fresh water and the source of the leakage will be removed. This wastewater was also picked up via vacuum truck.

If I can supply more information, please contact me at 713/328-3561.

Sincerely,

LUCIDOL DIVISION Pennwalt Corporation

Jimmy D. White Environmental Supv.

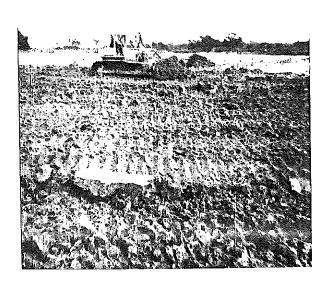
JDW:ja

cc: Rhonda MacKinnon

Doug Ucci S. Balamoun

DEC | ISSES





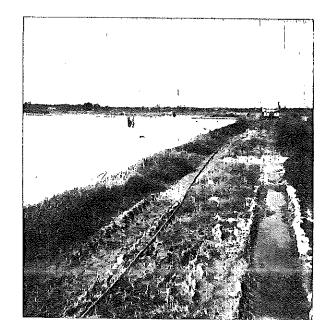
Dozers covering fixed sludge from South Pond



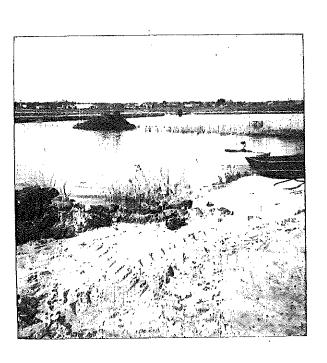
12/9/85

Pennwalt Corporation Lucidol Division, WDW 122 and 230 Registration #30458





South Pond Freeboard 13 inches

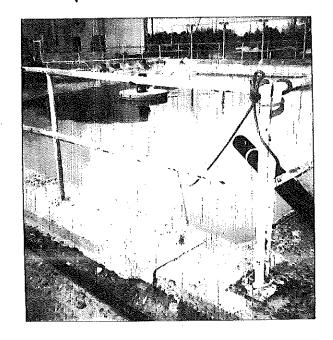


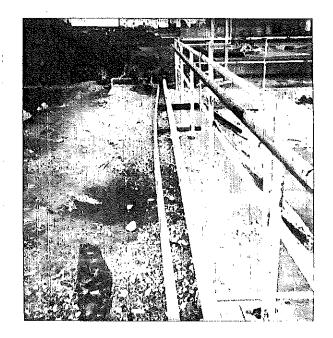
Vacuum trucks dumping into South Pond

12/9/85

Pennwalt Corporation Lucidol Division, WDW 122 and 230 Registration #30458

Settling Basin



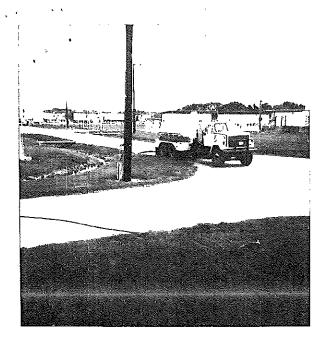


Oxidation pond

New pipeline to injection well

12/9/85

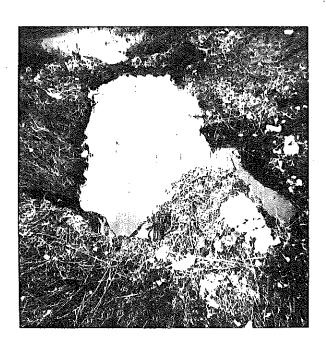
Pennwalt Corporation Lucidol Division, Generator #30485, WDW 122





Vacuum truck picking up spill

Leaking gate valve



12/9/85

Pennwalt Corporation Lucidol Division, Generator #30458 WDW 122

Wastewater from leaking gate valve

## TEXAS WATER COMMISSION

Paul Hopkins, Chairman Ralph Roming, Commissioner John O. Houchins, Commissioner



Larry R. Soward, Executive Director

Mary Ann Hefner, Chief Clerk

James K. Rourke, Jr., General Counsel

December 16, 1985

Mr. Allan Trovillion Torque Petroleum Products, Inc. P. O. Box 1326 Dickinson, Texas 77539

CERTIFIED MAIL

RE: RCRA Liability Coverage

Texas Water Commission Registration Number 34323

Dear Mr. Trovillion:

We have received a photocopy of a certificate of insurance from National Union Fire Insurance Co. (policy numbers S9961885, GLA 9180 276 and MU 155 3386) for liability coverage for the above referenced facility.

In order to fulfill liability coverage requirements in accordance with 40 CFR 264.147 and 265.147, we must have an originally signed duplicate certificate of insurance amended by attachment of the Hazardous Waste Facility Liability Endorsement. Both must be worded as specified in 40 CFR 264.151. Sudden accidental occurrences must be covered in the amount of at least \$1 million per occurrence and \$2 million annual aggregate, exclusive of legal defense costs. Coverage for non-sudden occurrences is required to be in the amount of \$3 million per occurrence and \$6 million annual aggregate, exclusive of legal defense costs. The certificate submitted November 25, 1985 does not fulfill these criteria. Non-sudden coverage is required only for owner/operators with surface impoundments, landfills, and/or land treatment facilities.

In addition, we have never received financial assurance for closure/post-closure costs for this facility, as required by 40 CFR 264.143 and 264.145. Failure to provide financial assurance for closure/post-closure care and failure to provide complete and adequate liability insurance constitute violations of 40 CFR 264.-265.143, 264.-265.145, and 264.-265.147 requirements.

DEC 3 | 1985

Mr. Allan Trovillion December 16, 1985 Page 2

This agency will expect documentation of liability coverage and closure/post-closure financial assurance within 30 days. Contact Ms. Kay Crouch for assistance in financial assurance matters.

Sincerely,

Russell Kimble, Head Program Support Unit Program Support Section Hazardous and Solid Waste Division

KC:mk

Vcc: Texas Water Commission, Deer Park Office

TEXAS DEPARTMENT OF WATER RE	SOURCES TOWR-0849 3/	org. No. 331 Work No. 916 Lap. EPA
NO. SW 06480		dille store o
Site Name	a source p	oint of Collection
Site Location	2	hale -
	7 7 - 1 0 -	<u> </u>
County		Tank;   Impoundment;   Landfill
Method of Collection	he man	1103(0 1 1)0,
- there		Fime Collected dilla (am, 6m) Date Shipped Holys
·		100.000 //0
		DDOR: Tyes; No; Describe
	Date Date	ļi.
S.W. Registration	Permit Number Page No. Page No. Date  Mo. Day	VI. Elanne & Johnson
1 . 9 10	18 19 21 22 23 24 25 26	27 28 29 (Collector's Signature)
130950	1	
30 Code 35 Parameter Value	44 Code 49 Parameter Value	58 Code 63 Parameter Value 71
:		
TEXAS DEPARTMENT OF WATER R	ESOURCES TOWN 1849	10 1005
<del>-</del>		DEC 10 1985 3242
NO. SW 306480 org. No. 33	Work No. 9110 Lab. Et.	4 DEC 17 1985 (L'ap. No.)
Material Sampled: Solid waste (W); Lic		Analyst ston:w//////
Stream (S); Other (C	1.//2011	Preservation: None; Tice! H <sub>z</sub> SO <sub>4</sub> ; HNO <sub>3</sub>
Comments Manual TM	nen - ////////	Auxiliary Tags AT JULY 79
	(continued on bac	LEACHATE:EP Toxicity Series;TDWR
30 Code 35 Parameter Value	44 Code 49 Parameter Value	58 Code 63 Parameter Value 71
DH.	T-ALK.	COD
00403	37004/0 3	
Enduchul	2	TOC   39
00025	2/2	00880 39
<del>                                     </del>	103	00610 023
00940	aboute '	11 nz = N
00671	476	00620 .033
sulfate	T-C04	NO2-N
00945	6400665	4800615 1.034

and the second of the second o



# TEXAS DEPARTMENT OF WATER RESOURCES

1700 N. Congress Avenue Austin, Texas

XAS WATER DEVILOPMENT BOARD
Louis A. Beecherl, Jr., Chairman
George W. McCleskey, Vice Chairman
Glen E. Roney
W. O. Bankston
Lonnie A. "Bo" Pilgrim
Louie Welch



Charles E. Nemir Executive Director

January 19, 1984

TEXAS WATER COMMISSION
Paul Hopkins, Chairman
Lee B. M. Biggart
Ralph Roming

Mr. Jim White, Chemical Engineer Pennwalt Corp. - Lucidol Division P.O. Drawer 810 Crosby, Tx. 77532

Dear Mr. White,

Re: Pennwalt Corp., ISW Registration No. 30458

On November 3, 1983 Susan Ripley of this department conducted an industrial solid waste compliance inspection of your facility. The following deficiencies were noted:

- 1. The facility's Part A permit application needs to be updated to include cyanide wastes and the two tanks for storage and processing of those within the Notice of Registration should also be updated to include the same additions. These changes are necessary to fulfill the notification requirements of Texas Administrative Code (TAC) Section 335.6(b).
- 2. The waste analysis plan should include analysis for cyanide as reswired by TAC Section 335.114: specifically, subsection (5) 1 - 4
- 3. The cyanide treatment tanks should have signs stating "Danger the authorized Personnel Keep Out" as required by TAC Section 330, 116 pt

The state of the s

the expected year of closure, nor certification as required by TAC Sections 335.213(a)(2) and (4) and 335.216. It should be noted that the facility is required to update their closure cost estimate in March, 1984.



Mr. Jim White Page 2 January 19, 1984

Please respond to this office in writing by February 20, 1984 with your plan and schedule for correcting the above deficiencies. If you have any questions, please contact Susan Ripley at 713-479-5981.

Sincerely,

Merton / Coloton

Merton J. Coloton, P.E. Supervisor, District 7

MJC/SR/ka



LUCIDOL

18000 Crosby Eastgate Road, Crosby Texas 77532 • 1713) 328-3561

THE MEACH TO BE IPLIENT IN HEALTH PRODUCTS

October 4, 1983

5. W#30458

Dwight C. Russell DISPOSAL FACILITIES UNIT, TDWR 1700 N. Congress Avenue Austin, Texas 78711

Dear Mr. Russell:

In follow up of our conversation of October 4, 1983, I would like to submit the soil samples taken in September 1981. I believe the results would indicate that the pond in question is impermeable. Also submitted are recent bacteriological test taken of a fresh water well located roughly 350 yards from the pond.

As required by our recently issued disposal permit, we have two years to empty the pond and thus eliminate any need for ground water monitoring in the future.

I hope this information will help you and at the same time climinate any need for drilling additional wells.

Sincerely,

LUCIDOL DIVISION
Pennwalt Corporation

The state of the state of the

Jimmy D. White Chemical Engineer

JDW:ja

,	,		
Send	Report	To:	

NAME OF WATER SUPPLY:

Send Report 10:	
Penwait - Lucidal - Crosby	Penwalt- Lucidol- Crosby
18000 Crosby-Eastgate	Water Supply I.D. # Unassigned
Crosby T.L. 77532	County Hanis (1-7)
SAMPLE TYPE IF FROM WELL	IF SURFACE SUPPLY
Distribution Depth ft.	Name of Source
☐ Plant Discharge Age yrs.	
☐ Raw Supply Well No	
ロ Other REMARKS: ノのも、	
Signature)	Date Collected 2 / 25 / 83 (31-36)
Laboratory No Date Re (10-13) (17-20)	Date Reported (10-13) (17-20)
1016 Calcium mg	g/1 1028 Iron mg/1
1031 Magnesium mg	3/1 1032 Manganese mg/1
1052 Sodium mg	g/1 .
1929 Carbonate mg	g/1
1928 Bicarbonate mg	g/1
1055 Sulphate mg	3/1
1017 Chloride mg	3/1
1025 Fluoride mg/1	
1040 Nitrate (as N) mg,	/1
1050 Dissolved Solids mg	g/1
1931 Phenolphthalein Alkalinity as CaCO m	g/1
1927 Total Alkalinity as CaCO	g/1
1915 Total Hardness as CaCO m	g/1
1925 pH	
1926 Diluted Conductance Micromhos/cm.	FORM NO. H-71

Well discharge Collected by Work Time AMPN  Send report to  NAME Limmy White  STREET / COOO Crushy - East gate Rd  STREET / COOO Crushy - East gate Rd  STREET / City TEXAS 77532  City Texas 77532  City Code)  Water System Identification Number   011931  Water System Identification Identific	HOUSTON CITY HEALTH DEPA TENT LABORATORY  (A Regional State Health Department Laboratory)  Lisawa It Lucidold Harris  Name of Water System		Pennyalt
NAME Jimmy White  NAME Jimmy White  STREET / 8000 Crushy - East gase Rd  STREET   STREET   STREET    CITY Croully TEXAS 77537   CITY    Water System Identification Number   1011931   Water System  Water System Identification Number   SAMPLE IS: WATER SOURCE   Public    Water System Identification Number   SAMPLE IS: WATER SOURCE   Public    Water System   Public   Public   Public   Public   Dairy   Citake   Dairy   Second   Dairy   Second   Dairy   Second   Dairy   Second   Dairy   Second   Dairy   Chlorine residual   Total sample    Total samples collected this date 1			Point of Collection Send report to:
Water System Identification Number	NAME Limmy White	,	STREET 18
Total samples collected this date Do Not Mark Below This Line Do Not Found Test Date Reported APR 12.1983 MPN Confirmed Test Date Reported APR 12.1983 MPN Completed Test Date Reported APR 12.1983 MPN Complete Test Date Reported MPN Complete Test Date	Water System Identification Number / 011 93 /  TYPE OF SYSTEM: SAMPLE IS: WATER SOURCE  TYPE OF SYSTEM: (Public Systems Only) [I River  Dairy Swimming Pool [] Distribution [] Check [] Lake  Dairy System Identification Number / Distribution [] Special [X] Well  Results of the control of the	H	Dairy Swim
MPN Confirmed Test  Date Received APR 12.1983  MPN Confirm  MPN Completed Test  Date Reported APR 14.1983  MPN Completed Test  Colliform Organisms Found   Description of the preliminary, Report APR 14.1983  Colliform Organisms Found   Not Found   Not Found   Not Found   Date Received APR 12.1983  MPN Confirm  MPN Completed   Colliform Organisms Found   Description of the preliminary Report   Description	24 hr 48 hr. 21638	= '	Presumplive Test
Unsatisfactory	MPN Confirmed Test Date ReceivedAPR. 1 2.1983 Date ReportedAPR. 1 4.1983 Date Reported		MPN Confirmed Test MPN Completed Test Collform Organisms For Not For
Unsatisfactory:  No. Water of satisfactory bacteriological quality should be free of Colliform Organisms.  Water of satisfactory bacteriological quality should be free of Colliform Organisms.	Unsatisfactory:	<b>78.</b>	Unsatisfactory:  Water of satisfactory

WATER BACTERIOLOGY  Form STON CITY HEALTH DEPARTMENT LAB  (A Regional State Health Department Laboratory)  CONTROL OF CONTROL CONTROL  Point of Collection  Collec
Point of Collection Collected by Date (Mo., Day, Yr.)
NAME Jimmy white
CITY Crosby Tx TEXAS 775
Water System Identification Number 2484  TYPE OF SYSTEM: SAMPLE ID.
□ Public □ Botiled Water
Total samples collected this date Chlorine residual  Do Not Mark Below This Line
Presumplive Test 24 hr. 48 hr. 48913
MPN Confirmed Test Date Received AUG. 0 9. 1
MPN Completed Test Date Reported AUG 1 1 10
Collform Organisms Found

Water of satisfactory bacteriological quality should be free of Coliform O

Swill

## SOUTHWESTERN LABORATORIES

Gent

Materials, environmental and geotechnical consultation, fundamental testing and analytical services P. O. Box 11768 • 222 Covulendo • Housilon, Toxon 77000 • 7137692-9151

September 22, 1981

Re: Report of Subsurface Exploration Holding Ponds Lucidol Plant Crosby, Texas SWL No. 81-250

Ed L. Reed & Associates, Inc. 1109 N. Big Spring Midland, Texas 79701

Attention: Mr. Ed L. Reed, P.E.

Gentlemen:

Southwestern Laboratories has completed the subsurface exploration for the above referenced project. This work was authorized by Lucidol's Purchase Order No. C1951.

Originally two (2) soil test borings were requested by Mr. Reed; however, at the time of the exploration, Mr. Chester Smith with Lucidol requested that a third boring be drilled and associated laboratory tests performed. All borings were drilled to a depth of 40 feet below existing grade and were grouted with cement after completion of the field operations.

Laboratory tests were assigned by Mr. Reed and consisted of Atterberg Limits, specific gravities, permeabilities and chloride analysis. The Boring Plan, showing the approximate boring locations, the Logs of Borings and the Summary of Laboratory Test Data are attached.

If you have any questions or if we can be of further service, please contact us.

Yourn very finity,

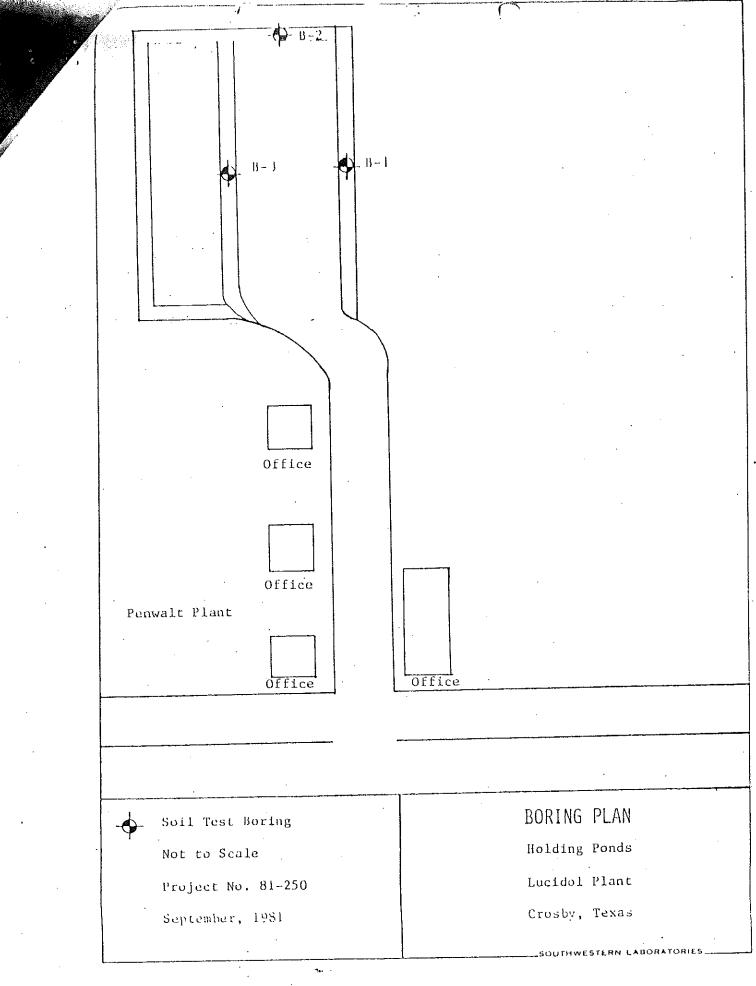
SOUTHWESTERN LABORATORIES

John A. Gunter, P.E.

Project Manager

Geolechnical Engineering Division

cc: 3 Ed L. Reed & Assoc. 1 Lucidol - Dr. Uday Wagley



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		SUMMARY OF LABORATO	PRY T	EST	D	ATA		COM	RESSI	ОИ	TEST	;
	TE	Holding Ponds, Lucidol Plant, Cros Project No. 81-250 9/3/81	sby, Texas		•			COMPRESSION	<u>z</u>	RESSURE	lc ty	OTHER TE
ORING NO	DEPTH IN FEET	TYPE OF MATERIAL	MOISTURE		1	RBERG	LIMITS	COMPRE	STRAIN	ATERAL PRESSURE	Specific	Permeabili om sec
1	0-2	Gray, light gray and tan clay with ferrous and calcareous nodules and limestone gravel, fill	18-	114	62	20	42	1			2.63	
	2-4	Gray, dark gray and tan clay with calcareous nodules and sand parting	gs 23	99								7.9 x 11 <sup>-9</sup>
	t .	Dark gray silty clay with ferrous nodules and organic	27	98	48	19	29			-	2.64	
<del></del>	8-10	Gray and light gray silty clay with silt pockets and ferrous nodules	25	97			1 '			,		i.6 x 1: <sup>-8</sup>
	12-14	Light gray and tan clay, very cal- careous, slightly silty	21	112	52	19	33	'		!	2.68	
		Light gray and tan silty clay with calcareous nodules	27	99	47	17	. 30			!	2.67	
	18-20	Tan and light gray clay with cal- careous nodules, slickensided	23	98								3.4 x 16 <sup>-9</sup>
		Tan and light gray silty clay with clay seams and pockets and cal-careous seams.	28	97	46	19	27			1	2.69	
	33-35	Tan and light gray clay, slicken- sided, fragnented	33	89	83	23	60				2.71	
	138-40	Tan and light gray clay with cal- careous nodules, slickensided	2.5	102	65	22	43			!	2.67	
					-					i		
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1K 6V/S 6/44 (-4/4/4 E) juminimum a success	/#30394644pc======	STEETT I FROM Modern verver ve											
		<u></u>	SUMMARY OF LABORATOR	RY TE	. <b>ST</b>	DA 1	TA		COMP	RESSIC	Я	TEST	-
	PRO DAT	DJECT :	Holding Ponds, Lucidol Plant, Crosby Project No. 81-250			<del></del>			4PRESSION 111	RAIN 0,0	ERAL PRESSURE	Specific Gravity	OTHER TESTS Fermeability
BORIN	NG	DEPTH		MOISTURE		ATTERB	BERG LI	I PI	COM	12	LATER	Spe	cm sec
NO.		IN FEET	Stiff gray and light gray clay with ferrous nodules, slightly silty (fi	]	96	54	20	34		1	! ! !	2.63	1.1 x 11 <sup>-8</sup>
2			Stiff dark gray and gray clay with ferrous nodules and roots, slightly	1	95	60	19:	: 41	1	1	:	2.65	8 x 13 -9.
	:		silty Plastic light gray and tan clay with ferrous and calcareous nodules slightly silty	27	98	54	18	36		:		2.65	2
			Stiff tan and light gray sitt, cray with silt pockets, clay pockets, and calcareous nodules	23	101	.43	17	26_		1	· 	2.63	3 x 1: <sup>-8</sup> .
			Stiff tan and light gray clay, slickensided, fragmented	36	91	75	22	53	:		-	2.63	
	· · · · · · · · · · · · · · · · · · ·		Stiff tan and light gray clay with		103	71	21	50	1	<u> </u>	!	2.76	
			Very stiff tan and light gray clay 5 slickensided, fragmented	30	95	78	22	56				2.66	
			Stiff tan and light gray clay, 0 slickensided	31	93	.77	24	53	· i			2.71	
												:	
								-				1	
					-	-							
								-					
97.57 20.00				-	_		-	+	<u> </u>		-		
											SOUTI	HWESTERN	LABORATORIES

		SUMMARY OF LABORATO	RY TE	ST	DA	ATA		COMP	RESSI	TEST NO	
PROJECT DATE		Holding Ponds, Lucidol Plant, Crosby, Texas Project No. 81-250 9/3/8!						PRESSION 11	RAIN °°	PRESSURE 11 F1c	OTHER TESTS
ORING HO	DEPTH		MOISTURE	1	ATTERBERG LIMIT				a is	Specific	Permeability ct sec
. 3	0-2	Stiff dark gray, light gray and tan clay, slightly silty	25	97	55	18	37			2.68	_
	***************************************	Plastic čark gray, gray and tan clay with ferrous nodules	31	88			: 1 :		;		1.0 x 11 <sup>-5</sup>
	6-8	Soft dark gray clay with roots, slightly silty	30	88	57	18	: <u>39</u>		·	2.66	
	8-10	Plastic dark gray clay with roots, slightly silty	27	98			i			,	5.9 x 1: -9
	14-16	Stiff light gray and tan clay with ferrous and calcareous nodules, slightly silty	1 22	103	52	19	33	·	· :	2.66	
	18-20	Stiff tam and light gray clay with calcareous nodules, slickensided	24	97						1	4.4 × 11 <sup>-9</sup>
	23-25	Stiff tam and light gray clay, slickensided, fragmented	32	93	76	21	55	;		2.66	ŧ
	28-30	Very stiff tan and light gray clay with calcareous nodules,   slickensided	24	101	65	19	46.	:	:	2.70	
	33–35	Stiff tam and light gray clay, slickensided	33	89	79	21	55	4		. 2.68	
	38-40	Stiff tam and light gray clay, slickensided, fragmented	30	92	85	23	62	-		2.62	- And the second se
-	1			<u> </u>	_	·  -	<u> </u>	1			
	1										1
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								<u>.</u>		SOUTHWESTERN E	A 2 0 2 1 0 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2

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#### CHEMICAL ANALYSIS

Sample	ChlorIdes, mg/kg
Boring No. 1	
2 - 4	559
4 - 6	976
• *	479
10 - 12 18 - 20	622
18 - 20	
Boring No. 2	
0 - 2	109
4 - 6	1026
12 - 14	111
18 - 20	37.5
Boring No. 3	
2 - 4	762
6 - 8	784
	369
10 - 12	92.2
18 - 20	•

#### LOG OF BORING -1

Bolding Ponda, Lackdol Plant, Cronby, Texas

PHOUSELL Project No. 81-250 LOCATION See Boring Plan 8/25/81 TYPE DATEC STANDARD SAMPLE W WATER PENETRATION r DEPTH, FEET PER DESCRIPTION surface elevation: Existing Grade Fill: Hard dark gray clay - becoming tan sandy clay at 1 foot - becoming gray clay with sand seams and calcareous nodules. at 2 feet Plastic dark gray silty clay 10 Stiff tan and gray clay, very calcareous Stiff tan and light gray silty clay 20 - without silt or calcareous nodules below 33 feet Boring Terminated at 40 feet

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#### LOG OF BORING 3-2

Holding Ponda, Lucidol Plant, Cromby, Texan Project No. 81-250 8/25/81 TYPE DATE LOCATION See Boring Plan STANDARD WATER BAMPLE PENETRATION DEPTH PRES DESCRIPTION SURFACE ELEVATION: Existing Grade Fill: Hard tan sandy silt - becoming stiff gray clay at 2 feet Stiff gray silty clay Stiff gray clay - color change to gray and tan with ferrous and calcareous. nodules at 12 feet 1. 1 249 Stiff tan and light gray silty clay . Y Very stiff tan and light gray clay, slickensided 30 40 Boring Terminated at 40 feet

### LOG OF BORIN 3-3

operation of the	T (( )	''/ 	25/HL TYPE LOCATION S		ATION: See B	orlng	Plan ,		
ET		S	A MYL	C A	BAMPLE			STANDARD	
LL)	SYMBOL	PLE							. ,
DEPTH, F	SY	SAS			DESCRIF	TION			
		a l	,					•	
0	m				cisting Grade	)			
		*** **	Fill: Stiff	dark gray c oming plasti	lay				
			, , ,	wing braser	c at 2 reet	•			
5 1			-		:				r
<u> </u>									
	m	<b>-</b>							
			Plastic dark	gray clay			<del></del>		******
10 \$				-	•				
[			- colo	r change to	gray and ta	n 12 feet		,	
	7777							•	•
5			Stiff tan and	light gray	clay with c	alcareous no	ndules		
					at 16 to 18		,44100	' .	
<del>-</del>		·		,,,,,,				,	
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1	14		<del></del>	D			<del></del> -	M45	<del></del>
一。				Boring Ter	minated at 4	0 feet			: .
						•			n vate
1				•					1,2
1	11	j.							

# Industrial Plid Waste Disposal TSD Facilit Review District No. 7

Ground Water Monitoring (gm): Required (della) Not Required Comments: 2 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	Texas Permit/Reg. No. 2016?  EPA I.D. No. 770 112 112 112 112 112 112 112 112 112 11
Site Operator Information:	
Name of Company Site Address Interim Status: Yes No Comments: Hazardous Facilities (circle): Landfill, Incin., T	Landfarm , Surface Impoundment , ank / , Waste Pile , Containers /
Type of Industry	and the second second
Indicate below classes of waste managed (Haza Class	rdous-H, Class I nonhazardous-NH, II-III)
Generator 1/1/1/15 Transporter	Small Quantity Generator
Treatment 4,000 Disposal 10	Storage ; 90 Day Exemption
Site Information (T.S.D. facilities only)	
<ol> <li>Are facilities indicated on Registration?</li> <li>Describe waste (Haz) in on fac (200.00)</li> </ol>	
<ol> <li>Describe waste (Haz) in gm fac. cyasud</li> <li>Closed or abandoned facilities</li> </ol>	1 /. /
·	•
Inspection Information (most recent compliance	e monitoring inspection):
1. Inspector's Name Production	
2. Inspection Date 47-ac	
3. Inspection Results: Site for which gm (ha	ns) or (should have) been installed:
<ul> <li>a. Quarterly reports submitted:</li> <li>b. Annual reports:</li> <li>c. Analyzed for drinking water stds:</li> <li>d. Analyzed for ground water quality par:</li> <li>e. Analyzed for ground water cont par:</li> </ul>	Yes No Yes No Yes No Yes No Yes No

Authentication of this review: Signed //ich and //ich Date 1/12 % 5

#### I. Instructions

- 1. Prior to inspection, review registration file for general information.
- 2. During inspection indicate "N/A" at the end of any question not applicable to existing conditions.
- 3. Indicate "Unknown" if a pertinent question cannot be comfortably answered.
- 4. Relevant notations are encouraged but not required.
- 5. Consult the EPA Classification Guidance Manual (blue notebook) to clarify unclear questions.
- 6. After inspection, review file to complete form as necessary. Any discrepancy between information in file and existing conditions should be noted on this form.

#### II. General Company Information

Α.	Registration/Permit No. 30458
В.	Company Name and Kailing Address
	Name Pennwalt Corp.
	Street/Road P.O. Drawer 810
	City, State, Zip Code Crosby, TX 77537
	County Harris
С.	Plant Location
	Street/Road 18000 Crosby-Eastgate Road
	City, State, Zic Code Crosby, TX 77532
	County Harris
	Site Coordinates: Latitude 29°57'.00"
	Longitude <u>95°01'30"</u>
D.	Plant Manager/Grenator
	Name William L. Conally
	Title Plant Manager

Ge	neral Facility Information
Α.	Registration/Permit No. <u>30458</u> .
В.	Sequence No. Of Type of Facility (landfill, lagoon, etc.) Lagoon Pon
С.	Facility Manager/Operator (if different from II.D.)
	Name Same as II.D.
	Title
	Telephone #
D.	Surface Area of Facility <u>1.8</u> acres
Ε.	Capacity of Facility <u>25,000</u> cubic yds.
F.	Classification of waste disposed $\overline{\mathcal{L}}$
G.	Description of wastes being managed at the facility.  (Including waste sequence number from Notice of Registration)  (Waste No. 001, process wastewater, and waste No. 007, Cyanide-bear waste (cyanide is distroyed before the waste is discharged into the lagoon) are discharged into Facility No. 01, a lagoon pond. The pois periodically taken out of Service and the supernatant dear thy ash is added to the settled studge and the thirture is compacted studge prior to further use. Is tactlify used for disposal or wastes above grade?
. Н.	Is facility used for disposal of wastes above grade? No Turnust.
Ι.	Date facility opened <u>1970</u>
J.	Status of facility: active $(X)$
•	inactive ( ) effective date
	closed ( ) effective date
К.	Has facility been deed-recorded? <u>70</u>
ş	Ather restinant cheanvations:

Inspected by: Philip S. Liang
Date Inspected: 12/17/82

Accompanied by:

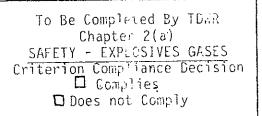
To Be Completed By TDWR
Chapter

AIR
Criterion Compliance Decision

Complies

Does Not Camply

	÷	
1.	Is open b	ourning of solid wastes practiced at the facility?
	YES	(Continue to 2)
	<u> </u>	☐ Records of previous open burning ☐ Visual observation of open burning ☐ Physical evidence of previous open burning
	<b>X</b> NO (	COMPLIES)
		X Facility is a surface impoundment and does not open burn wastes  [Facility is a landspreading operation and does not open burn  wastes  [Landfill which does not open burn
2.	Are resi	dential, commercial, institutional, or industrial solid wastes med at the facility?
	YES YES	(Does not camply)
	·	Records of previous open burning  Usual observation of open burning  Physical evidence of previous open burning
	□ <u>73</u>	(Continue to 3)
3.	operati	dclearing debris, diseased trees, debris from emergency clean-up ons, silvicultural and agricultural wastes, or ordnance open at the facility?
	LIVES	(Continue to 4)
		☐ Records of previous burning ☐ Visual observation of open burning ☐ Physical evidence of previous open burning
	<u>0:</u> :	(COUPLIES)
4		he facility control air emissions in accordance with the State entation Plan (STL) approved or promulgated by the administrator at the Section 110 of the Clean Air Act?
	☐ YES	(OOMPLIES)
,		Opinion given by State agency managing the SIP  Variances or permits under SIP examined  Visual observations of open burning comply with SIP
		(Does not oxivity)



1.	Is methane	e generated?
	YES YES	(Continue to 2)
		Lanofill with organic waste Surface impoundment generating methane
	<b>⊠</b> NO	(COMPLIES)
	0 <b>%</b> 0	Landfill with no organic waste Landfill less than one year old Surface impoundment with no organic waste Landspreading operations
2.	Is methan accumulat	e prevented from migrating beyond the property boundary or from ing in facility structures?
	YES YES	(COMPLIES)
		No adjacent facility structures Facility located on impervious rock Facility located on saturated soil or surrounded by surface water Facility with gas venting or recovery systems Facility with recent monitoring records showing no migration
	<u> №</u>	(Does not comply - continue to 3)
3.	25 percer	oncentrations of methane, as determined by monitoring, exceed it of the LEL in facility structures or the LEL at the boundary?
	YES YES	,Does not comply)
	<u> N0</u>	(COMPLIES)

To Be Complete By TEXE

Chapter Dit

SAFFTY - 11FES

Criterion Completes

Completes

Does Not Comply

ι.	Does the	facility have the potential 1 - fire occurrence?
	YES YES	(Continue to 2)
	<u> </u>	(COMPLIES)
	<b>⊠</b> □	Facility receives only nonflockable, noncombustible wastes Other
2.	Is period	ic cover material applied so as to reduce the risk of fire?
	YES	(COMPLIES)
		The facility applies and compacts cover over combustible solid waste at the cord of the operating day.  The facility applies and compacts cover at least once every 24 hours. The facility incorporates all waste into the soil at the end of the operating day.
-	□ NO	(Continue to 3)
3.	Does the they occ	facility have adequate operating procedures to control fires should un?
	YES	(com lies)
		Landfill minimizes fire hazaris by proper operating procedures:
		<ul> <li>High frequency of spreading and compacting all combustible wastes</li> <li>Waste materials with high fire potential are unloaded a safe distance from the working fact</li> <li>Unloading of wastes additately supervised</li> <li>Ent or burning loads are extinguished with water or soil before incorporating into the fill</li> <li>Earth speckfiles are located near the working face</li> <li>Water supply under sufficient pressure is available at the working face</li> <li>Fire extinguishers present on all equipment and buildings</li> <li>Arrangements are established with local fire fighting departments</li> <li>On-site availability of heavy equipment to extinguish fires</li> <li>Firebrooks, fire lames are present</li> </ul>
		(The fellowing answer from file review)  —— Previous inspections as despects indicate no problem  —— Permit conditions are boing followed (for a fire protection plan)  —— No exagraints have been sade  **The red red local fire a partment indicate no citations have been given

Chapter 2(b)
SAFETY FIRES
(Cont. Ded)

	<u>Surface</u> impoundment minimizes fire hazards by proper handling and storage of liquid wastes:
	☐ Wastes are mixed to reduce flammability ☐ Suitable fire extinguishing equipment is present ☐ Established arrangements with local fire department or trained on-site personnel ☐ Wastes can be rapidly drained or waste flow can be controlled ☐ Waste can be isclated ☐ Impoundment is readily accessible by fire-fighting equipment
	Landspreading facility minimizes fire hazards by proper operating procedures:
	☐ Spitable fire-fighting equipment is available ☐ Established arrangements with local fire department ☐ Facility is readily accessible by firefighting equipment
<u>110</u>	(Does not comply)

Chapter 2(c)

Chapter 2(c)

SAFETY - BIRD HADARDS TO AIRCRAFT

Criverion Compliance Decision

Complies

Does Not Comply

1.	Does the facility receive putrescible waste?
	YES (Continue to 2)
	☐ Food waste ☐ Sewage sludge, septic tank pumpings ☐ Arrival manures ☐ Animal Carcasses ☐ Others
	NO (COMPLIES)
2.	Is the disposal facility within the specified distances of a public-use airport?
	☐ 10,000 feet from any airport runway used by turbojet aircraft ☐ 5,000 feet from any airport runway used by piston-type aircraft
	<u> </u>
3.	Does the facility pose a bird hazard to aircraft?
	TES (Does not comply)
	□ Pird populations at the facility are greater than natural populations in the area □ Facility attracts birds □ There is a cirl hazard at the airport from areas outside the airport □ Filent patterns of the birds show that birds do fly from the disposal (soilts to the airport area
	☐ <u>L.</u> ACCAPLIES
	Desired populations at the facility are less than or equal to the natural populations in the area  Describing does not attract birds Desired attracts in is due to the airport facility Desired patterns of birds show that they do not fly from the disposal facility to the airport

To Be Completed By TDWR
Chapter 2(d)
SAFETY - ACCESS
Criterion Compliance Decision
Complies
Does Not Comply

1.	Is access	of unauthorized persons into the facility controlled?
	X YES	(COMPLIES)
	000	Natural controls: Trees and hedges Berms and ditches Cliffs and ravines Remoteness
	<b>义</b>	Artificial controls: Gates Fences
	NO NO	(Does not comply) (Continue to 2)
2.	Are autho	rized persons controlled within the facility so as to not expose them to realth and safety hazards?
	YES YES	(COMPLIES)
		Supervision of the unloading area Adequate lighting Posting information and direct signs Prohibition of scavenging Control of salvaging Trafficable roadways Alternate discharge point Other
	<u> N0</u>	(Does not comply)

To Be Completed By TDWA
Chap or 3SURFACL WATER
Criterion Compliance Decision
Complies
Does Not Comply

1.	Is there a point source discharge of pollutants to waters of the United States?
	TES (Continue to 2)
	<ul> <li>Facility has a Section 402 (NPDES) permit</li> <li>Landfill with a discharge from a leachate collection system</li> <li>Landfill with a discharge from an on-site leachate treatment system</li> <li>Landfill with a direct discharge of solid waste into waters of the U.S.</li> <li>Surface impoundment with a discharge from a pipe or outfall</li> <li>Surface impoundment with a discharge from an eroded channel</li> <li>Surface impoundment with a discharge from a spillway structure</li> <li>Sarface impoundment located in waters of the U.S.</li> <li>Landspreading operations with a discharge from an outfall pipe, or channel that drains the landspreading area where the waste is not incorporated ands the soll</li> <li>Letuspreading operations located near waters of the U.S. where waste is not applied for enchancement of vegetative growth</li> </ul>
	Signatural Signatura Signatural Signatura Signatural Signatura
2.	Is there a pushbarge of dredged material or fill material to waters of the U.S.?
	□ <u>Prin</u> (Continue to 3)
	☐ <u>:</u> (65 to 4)
.3.	Does the facility violate requirements established pursuant to Section 404 of the Clean Water Art?
	TES (Does not comply - continue to 5)
	404 permit, out is in violation of that permit Facility is in need of a permit and has not applied for a 404 permit
	$\sum_{i=1}^{n} \mathbb{E}_{i} \left( \operatorname{Continue}_{i} \left( \operatorname{to}_{i} \mathbb{F}_{i} \right) \right)$ .
4.	Facility operates in compliance with its 404 permit  Eachlity has applied for a 40% permit  X DUD WELL NECTOR  Poos the facility violate requirements for NPDES permits established pursuant to Section 400 of the Clean Water Act?
	THE (Deed not comply)
	Facility has a 402 permit, but is in violation of that permit Facility has not applied for a 22 permit.

Chapter 3 SURFACE MATER (Continued)

		MO (Continue to 5)
		Facility operates according to 402 permit requirements
5.	. Is t	there a nonpoint source discharge from the facility?
		YES (Continue to 6)
		Surface impoundment with spillover, overtopping, or leakage
	X	<u>10</u> (Continue to 8)
	• .	Lancill or lawspreading facility that totally contains runoff or other water  X Other Deep well injection
6.	that wate	the facility cause nonpoint source polluting of the waters of the U.S. violates applicable legal requirements implementing an areawide or Statewide requality management plan that has been developed and approved by the ristrator under Soutier 20S of the Clean Water Act, as amended?
	$\boxtimes$	TO (COUPLIES:
		Facility not in an area with an approved 208 plan  Facility in an area with an approved 208 plan and complies with all applicable requirements  X No 208 requirements have been placed on the facility.
		YES (Does not comply)

To Be Completed By TDWR
Chapter 4
GROUNT WATER
Criterion Compliance Decision
Complies
Does Not Comply

1,	Doe:	s grou an dri	and water contain more than 10,000 mg/l TDS, and is it <u>not</u> being used as a inking water source?
		YES	(COMPLIES)
			Ground water has more than 10,000 mg/l TDS, TDS = and is not use as a human drinking water source  Ground water is not present in usable quantities beneath the site
	X	<u>NO</u>	(Continue to 2)
		· 💢	Ground water has less than 10,000 mg/l TDS Ground water is being used as a drinking water source Ground water is not being used as a drinking water source
2.	Has	an un	derground drinking water source been contaminated by the facility?
		YES	(Does not comply)
		. 0	Monitoring shows contamination of a drinking water source Contaminating substances and concentrations
٠	X	<u>NO ( C</u>	OMPLIES)
	A	×	Facility does not overlie a drinking water source Monitoring shows no contamination beyond the solid waste boundary (or alternate)
	□ Fa	Not eili	ty does not have monitor wells. I cre

To Be Completed by TDWH
Chapter 5
ENDANGERED SPECIES
Criterion Compliance Decision
Complies
Does Not Comply

1.	Is the facility within a critical habitut or an area where endangered or threatened species range?
	YES. (Continue to 2)
	□ IO (COMPLIES)
2.	Has there then an assessment to determine if the facility has destroyed or adversely changed the critical habitat or contributes to the taking of any endangered or threat ened species of plants, fish, or wildlife?
	<mark>⊠are</mark> (company)
	□ Facility has passed assessment made by OES or other Federal agency □ Ficility has an individual 40-4, Permit with an assessment section □ Facility has passed evaluation as a result of settlement made to prevent adverse, inpact □ Dearty assessments have indicated comparable situation at facility is not a problem. □ NO → Century (U.3)
3.	Does the facilities presence result in the destruction or adverse modification of the critical habitat?
	Factors to consider:  Type of critical habitat  Size of critical habitat  Sensitivity of critical habitat to adverse impacts  Critical habitat species characteristics  Proximity of facility to critical habitat  Facility decommand operational characteristics  Type of critical habitat  Facility decommand operational characteristics
	$\frac{1}{2} = \frac{10}{100}$ (Continue to 4),

To Be Compliced By TDWR Char. 4 5 . ENDANGERE SPECIES (Continued)

4. Does the facility cause or contribute to the taking of any endangered or threatened species of plants, fish, or wildlife?

#### Factors to consider:

Type of species and species habitat Species characteristics Sensitivity of species and species habitat to adverse impacts Facility size, design, and operational characteristics

#### Adverse impacts to consider:

Harrassing, harming, pursuing, hunting, wounding, killing, trapping, capturing, or collecting species (direct violation of ESA, does not comply) Adverse modification or loss of habitat (including air & water pollution) Infringement on breeding, nesting, and feeding activities Interference with species movement

	<u>YES</u>	(Does	not	comply)	,
--	------------	-------	-----	---------	---

(COMPLIES:

Endangered species found in Harris County include:

- 1. Bald Eagle (wintering area) 2. Attwater's Prairie Chicken 3. American Alligator

To Be Comp stee by TDWR
Chapter 6(a)
DISEASE: VECTORS
Criterion Compliance Decision
Complies
Does Not Comply

۱.	Is the facility a potential breeding ground for rodents, flies, or mosquitoes which poses a threat to public health?
	YES (Continue to 2)
	<u>№</u> (CGMPLIES)
2.	Does the facility minimize the on-site population of disease vectors through the periodic application of cover material or other techniques as appropriate so as to protect public health?
	YES (COMPLIES)
	☐ Facility applies daily cover Facility practices other techniques: ☐ Repellents ☐ Insecticides or rodenticides ☐ Composting or processing ☐ Predatory or reproductive control ☐ Other
	$\square$ MO (Ides not comply)
	Comment

To Be Compined By TEME Chapte: 6(b)

SEVAGE SIMBGD AND SEPTIC

TANK P. PINGS

Criterion Compulance Decision

Complish

Does Not Comply

1.		rage sludge or septic tank pumpings applied to the surface of the incorporated into the soil?
	YES YES	(Continue to 2)
	<u> </u>	(COMPLIES)
2.	Are cro	Facility is a trenching or burial operation Facility receives no sewage sludge or septic tank pumpings.  Post planted for human consumption within 18 months after application?
	YES	(Continue to 3)
-		☐ Crops grown at time of inventory are for human consumption ☐ Information from operating plan ☐ Past usage or crops in the vicinity ☐ Information from facility owner/operator
	<u> 110</u>	(Continue to 5)
3.	Does th	se waste contact the food portion of the crop?
	YES	(Continue to 4)
		☐ Direct application or rainfall splash ☐ Crops with food portion close to the ground ☐ Taller crops that receive application early in growing stage
		(Continue to 6)
4.	Is the	waste treated by a process to further reduce pathogens?
٠	YES YES	(CXPLIE)
		☐ Verification of acceptable process from appropriate source Source used
•	□ NO	(Does not comply - continue to 5)
	•	☐ Verification cannot be made

To Be Comp. ted By TDWR
Chap or 7
ADPLICATION TO LOUD USED FOR THE
PROPUCTION OF Fill CHAIR CHOPS
Criterion Compliance Decision
Does Not Comply

1.	Is solid	I waste injected, spread or plowed into land used for food o	chain crops?
	YES	5 (Continue to 2)	
	<u>i:0</u>	COMPLIES)	
	X_	The land is not used for the production of food chain cre Facility is a surface impoundment Facility is a landfill	cps
2:	Is the ca	cadrium conventration in the waste less than 2 mg/kg?	
		mg/kg - cold lum concentration	
	YES	Subjects 4)	•
	<u> </u>	Continue to 5)	
3.	ls the pi	off the standard mixture 5.0 in greater at the time of	application?
	123	Sometimus to 4)	
		(1.es not outply)	
4.		annual application rate of cadalum in excess of 2 kg/ha for r human consumption?	food chain crops
		kg/ha/yr cadmium application rate (see	Figure 7-3)
	YES	E lies not comply)	·
		Claminum (c.5)	
5.		e is applied to land used for the production of topscoo, leops for human consumption, is the cadmium loading rate less	
		Chot ghown	
	YES	5 (Continue to C)	
		land is not used for production of these crops Cramium loading is less than 0.5 kg.ha/yr	
		Ties not cemply)	, ·

To Be Completed By TDWR
Chapter 8
FLOODFLAINS
Criterion Compliance Decision
Complies
Does Not Comply

1.	Is the solid waste applied to the land surface and incorporated into the soil at such a frequency that it is not subject to washout?
	YES (Complies)
	☐ Waste incorporated into the soil in accordance with requirements of Section 257.3-5
	Waste used as a soil conditioner or fertilizer  Disposal area being used (or will be used next season) for vegetation
	NO (Continue to 2)
2.	Is the facility located in the 100-year floodplain?
	YES (Continue to 3) (Provide copy of floodplain map with unit location)
	<ul> <li>Stated in permit or operation applications</li> <li>State floodplain designation</li> <li>Federal floodplain designation: Agency</li> <li>Interpolation between two known points in the 100-year floodplain</li> <li>Computations of flood flow and flood level</li> </ul>
	No (Complies, Floodplain map is attached
3.	Does the facility restrict the flow of the base flood or reduce the temporary water storage capacity so as to pose a hazard to human life, wildlife, or land or water resources?
	Special cases:
	Facility located in a state where equivalent review or permit procedures have considered flood alteration impacts Facility has a 404 permit with an equivalent flood hazard assessment section an is in compliance with the permit Facility has filled floodplain or is diked up to or above base flood level Facility is below floodplain grade  Facility located in a floodplain where the channel is diked to contain the base flood  Facility increases base flood level more than 1.0 foot
	ructives and the second

Cons. t - 8 F1 (Cons. 41); (Cons. 48d)

Factors considered in flood hazard possential assessment: Ease Flood characteristics Floodplain topography Floodplain hydrogeology Facility characteristics Natural resources in and adjacent to the floodplain Land use in and adjacent to the fleedplain (Ruce not comply - continue to Z) (Continue to 4) Is the facility protected from washout by the base flood so as not to pose a hazard 4. to human life, willlife, or land or water resources? Factors considered for washout protection: Types and Ellicitacy Protection: - Dike er leve - Bene - Flexible linings - Peneturive cover - hiprae --- Diversion of surface flow - Change in soil matrix - Flood flow velocity - Other -\_ None YES (Complies) - State washour assessment on 404 permit \_\_\_\_ Site analysis of washout protection (Dees not comply) - Washout by :loca of lesser magnitude than the 190-year flood \_\_\_\_ Site analysis of washout protection

Jennware Corp.

## TOWR OPEN DUMP INVENTORY SUPPLEMENTARY FACILITY EVALUATION

Gene	rator	Yes_X_	No		
Sm	all-Quantity Generator	Yes	No X		
	sporter yes, state method(s) <u>/.Compar</u>	y-owned tru	ck, 2. cont		
Trea	ater, Storer, Disposer	`Yes	No_X_		
Veri	ification of TDWR Solid Waste Regi	istration			
a.	Determine accuracy and completeness of entire computerized registration.				
	General Information — state any	inaccuracies or ad	ditions:		
	Generating site location	should be:			
	18000 Crosby-Eastgate Road				
	Crosby, TX 77532				
b.	Description of Waste Generating or additional SIC code(s) (if k	Activities — list nown) and manufactu	any inaccuraci Iring processes		
	Wasta No. ooz is incorrectly listed as phosphoric				
	acid (H2PO4). It show		chorous		
	acid (HzPOs).				
		• •			
ç.	Solid Waste Generation Summary				
	i. State any inaccuracies:				
	Waste No. 005, amine	solids, is no	longer		
	generated.	- /	Ü		

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						<del></del>
Solid Waste Ma	•					
i. State any	, inaccurac	ies: <u>[. W</u>	Late No.	202, phos	diorous	acid,
s now sold						
1 1 1	/!!	y plan	(010 1 00)	7:24	ilili. Ha m	
tank, stores	wastes	NOS CXX	, <del>((03,4 00</del>	1.) 3. tac	(Into No. 0	$4, \omega$
torage area	stores	waste a	24. j.4. Fa	cilify No.	05, an in	npour
asin, stou	sunste	No. 001.	d in this s	ection? If	so, comple	te te
informat	ion in Part	t III - Ge	neral Facil	ity Informa	ation of the	!
			dditional f			4
The single is actual	lagoor	n/pond	listed o	n His	registrat	tion
in solved	Des Des	/ San	ainta a	mode		
	XX XX	$\mathcal{M}$		0 $0$ $0$ $0$		

¥.03

#### TOWR OPEN DUMP INVENTORY

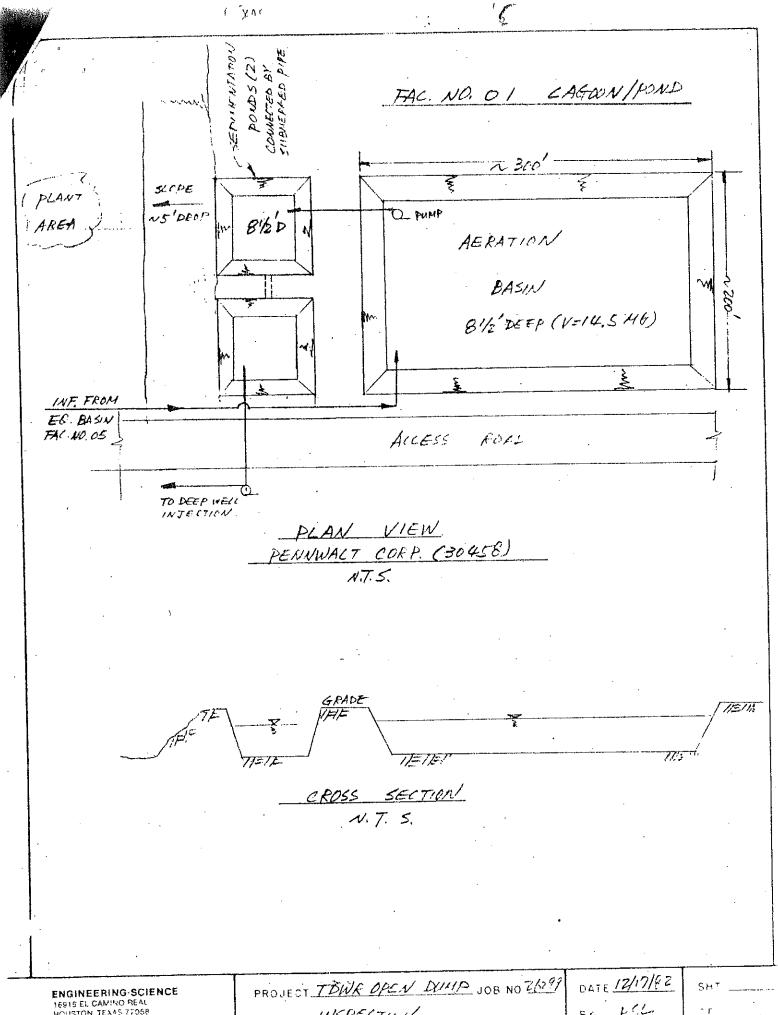
Inspector's Comments Pennwalt Corp. TDWR Reg. No. 30458 Inspected 12/17/82

An inspection of Pennwalt Corporation's solid waste management facility No. 01, a lagoon/pond, was conducted on December 17, 1982 by Philip S. Liang of Engineering-Science as part of TDWR's Open Dump Inventory program.

The facility registered as No. 01, a lagoon/pond, actually consists of four separate ponds, including one surge basin, one aeration basin, and two settling ponds. Since the capacity of the aeration basin has proven to be sufficient to accommodate even heavy loading rates, the surge basin has been taken out of operation. The two settling ponds are hydraulically interconnected.

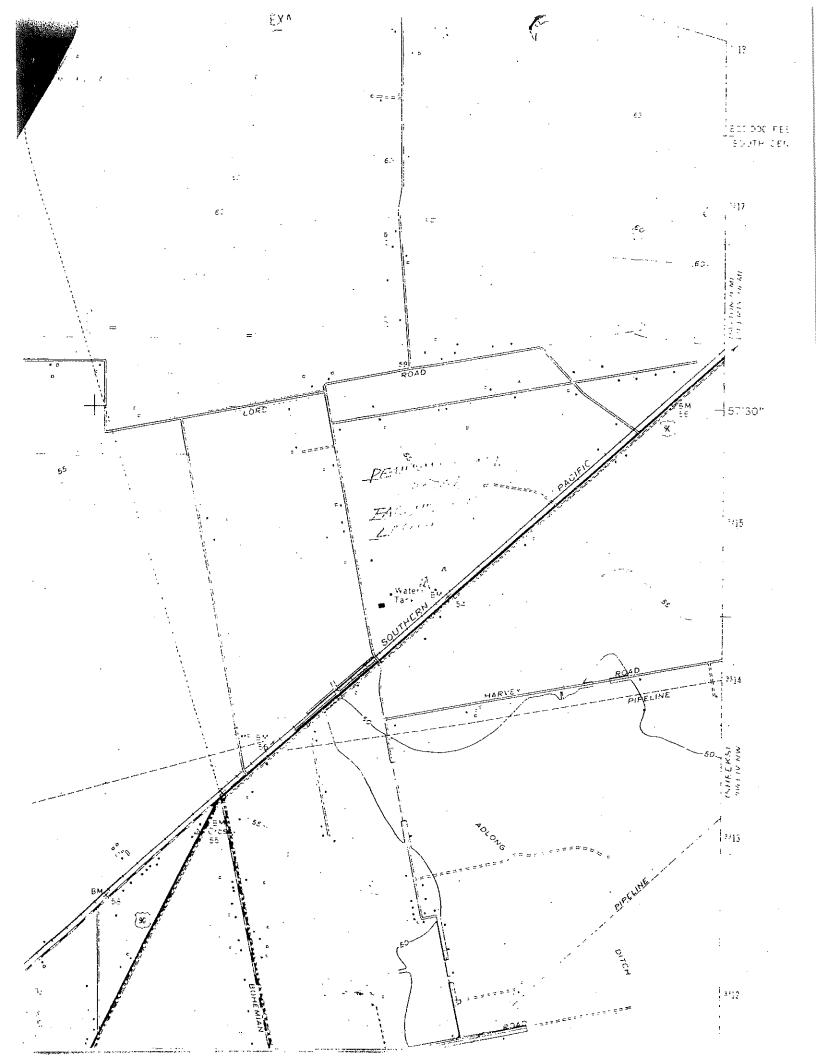
Waste No. 001, process wastewater, is discharged to the equalization basin (Facility No. 05). Waste No. 007, cyanide-bearing waste, is discharged to a storage tank (Facility No. 03) in which the cyanide is treated by chlorination. The two streams are then combined and transferred to the aeration basin. The stream is then pumped to the settling ponds, in which the solids settle out. The supernatant is then sent to deep well injection.

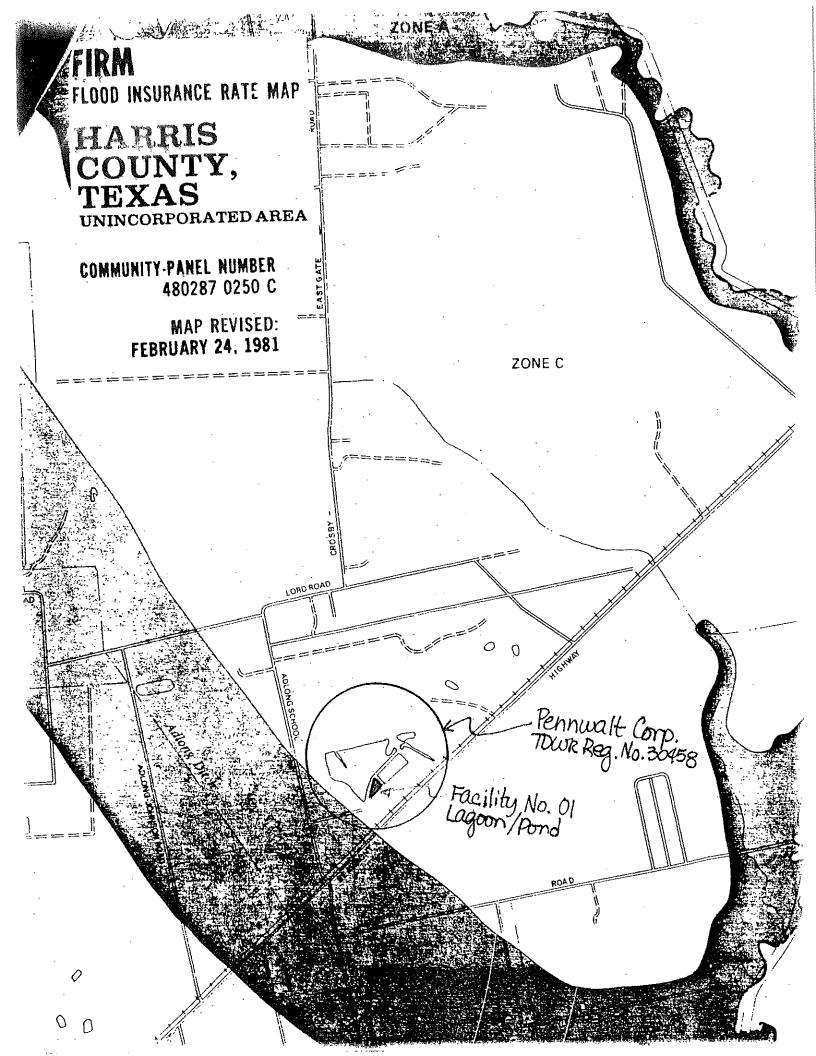
As each pond fills with sludge, it is taken out of service and the supernatant is pumped off. The sludge is mixed with fly ash and then compacted, and a new clay liner is placed on top of the compacted mixture. This occurs approximately once every two years for each pond.



16915 EL CAMINO REAL HOUSTON TEXAS 77058 13 488 2944

DETAIL INSPECTICIT





# elf atochem

Eif Atochem North America, Inc. 18000 Crosby Eastgate Road, Crosby, Texas 77532 Phone: (281) 328-3561, 1(800) 526-5544 Fax: (281) 328-4052

October 1, 1997

Jane Saginaw
Regional Administrator
United States Environmental Protection Agency
Region VI
1445 Ross Avenue, Ste 1200
Dallas, TX 75202

Ré:

Elf Atochem North America, Inc., Crosby, TX Facility Notification of Application of Administrative Stay Pursuant to 40 CFR §265.1080(d)(3)

Dear Ms. Saginaw:

Pursuant to 40 CFR Part 265.1080(d)(3) this is to advise you that the Elf Atochem North America, Inc. ("Elf Atochem") Crosby, TX facility wastewater treatment system meets the requirements of the Administrative Stay published at 40 CFR \$265.1080(d). The Crosby, TX facility is a manufacturer of a variety of organic peroxides which are used in the plastics and allied industries. This facility is located at 18000 Crosby Eastgate Road, Crosby, TX 77532.

The Crosby facility consists of three operating units which produce either more than one functional family of organic peroxides or multiple organic peroxides from one functional family. The continuous perester plant produces four large volume products. The batch production facility produces approximately thirty different products. The third unit consists of both continuous and batch operations; this unit produces new products to the facility, as well as provides continuous production of products also generated by the batch unit. Approximately 99 % of the products manufactured by the three process units are organic peroxides. One or more of these organic peroxides could potentially undergo self-accelerating thermal decomposition at or below ambient temperatures.

The facility generates wastewater from three process units which consists primarily of an aqueous waste stream that contains low levels of dissolved organic species and may include a small amount of floating organic phase material. The characteristics of the process wastewater are highly variable, due in large measure to the variety of products manufactured at the facility.

Jane Saginaw
Regional Administrator
U.S. Environmental Protection Agency, Region VI
October 2, 1997
Page 2

The Crosby facility recently completed construction of a new wastewater treatment system consisting of a series of above ground treatment and/or storage units which handle the wastewater prior to final disposal in one of two permitted Class I non-hazardous underground injection wells. During design of the system, the facility evaluated installing and operating the air emission controls specified in 40 CFR §§265.1085 through 265.1088 on the tanks handling the wastewater with a potential VOC concentration of 500 ppmw. Elf Atochem determined that such operation would pose an unacceptable risk of explosive decomposition and potential catastrophic failure of the tanks. Documentation in accordance with the requirements of §265.1090(i) explaining why an undue safety hazard would be created if the Subpart CC air emission controls were to be operated on the tanks handling wastewater with a VOC concentration of greater than 500 ppmw is being maintained in the facility files.

If you have any questions or require further information, please feel free to contact Connie Harrison, Environmental Manager of the Crosby, TX facility (281/328-9430) or myself (281/328-3561).

Sincerely,

ELF ATOCHEM NORTH AMERICA, INC.

Fine Chemicals

John T Voltz Plant Manager

cc: Allyn M. Davis, Director
Multimedia Planning & Permitting Division,
USEPA Region VI

1445 Ross Avenue, Ste 1200

Dallas, TX 75202

Nicole Bealle TNRCC Region 12 Industrial & Hazardous Waste Section 5425 Polk, Ste H Houston, TX 77023-1423

### elf atochem



Elf Atochem North America, Inc.

18000 Crosby Eastgate Road Crosby, Texas 77532





Jane Saginaw

Regional Administrator

United States Environmental Protection Agency

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Region VI

1445 Ross Avenue, Ste 1200

Dallas, TX 75202

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